ITEM 17 : SOLAR PANEL CONNECTED ON GRID

SCOPE OF WORK

The scope of works includes Supply, Installation, Testing and Commissioning of Roof-Deck Mounted On-Grid PV Solar Panel. All necessary, feasibility study, Civil work, Mounting of Module Structures, PV Module Installation, Inverter Installation, DC/AC Cabling and interconnections, Installation of Lightning Arrester and Earthing System according to standards, Net Metering, and repairs of all necessary inspections from Port of Lucena Quezon, with MERALCO Electric Company, as part of Pre-Commissioning, if any, and Commissioning of PV Solar Panel shall be subject to supplier scope including labor, tools and equipment and all incidental work if required.

GENERAL REQUIREMENTS

a) All works shall be done in accordance with the requirements of the publications and agencies having jurisdiction, as well as the requirements of the approved standards.

1.	Philippine Energy Regulatory Commission	-	(PERC)
2.	Department of Energy	-	(DOE)
3.	Renewable Energy Law (RA No. 9513)	-	(REL)
4.	Philippine Electrical Code	-	(PEC)
	Philippine National Standard	-	(PNS)
5.	Confederation of Solar Developers of the Philippines	-	(CSDP)
6.	Philippines Solar Power Alliance	-	(PSPA)

b) Materials Requirements of Solar Panel PV

1. Solar PV modules and array
2. Module mounting structure
3. Junction Boxes
4. Power Conditioning Unit
5. DC & AC Switches
6. Cables and installation accessories
7. Earthing and lightning protection
8. Solar Meter and Net Meter

Solar PV Modules and Array:

Solar modules shall be Crystalline (Mono/Poly) (or) Thin Film (or) Concentrator PV modules type. The peak power output of the PV Module shall be min 550Wp under STC. Module Voc shall be minimum 40.10V. The power output of the PV module must be reported under standard test conditions (STC).

The mechanical structure shall withstand gusts of wind / cyclonic wind up to 185 km/hr from the back side of the panel.

Module Junction box (weather proof), where the module terminals shall be interconnected and output taken, shall be designed for long life outdoor operation in harsh environments as

per the relevant specifications and protected against surges. It should have a provision for "Opening" for replacing the cable, if required.

The modules must be installed according to the supplier's work oriented.

PV modules used in solar power must be warranted for output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.

Module Mounting Structure:

The PV modules will be mounted on roof deck which can withstand loads of modules and high wind velocities up to 185 km per hour. The support structure used in the solar power will be hot dip Galvanized Iron (G.I).

The "Mounting Structure" should have the following features:

• The modules support structure shall be Mild Steel /hot dipped Galvanized Iron for holding the PV modules. The size of angle iron as prescribed by the supplier.

• Each panel frame structure shall be so fabricated as to be filled on the roof deck on its legs. The legs of the structure shall be fixed in the roof deck. The foundation shall support SPV modules at a given orientation, absorb and transfer the mechanical loads to the ground properly and shall withstand a maximum wind speed of 185 km/hr.

• All nuts and bolts should be made of good quality Stainless Steel.

• The structure should be designed to allow easy replacement of any module.

• The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels.

• The minimum clearance of the lowest part of the module structure and the developed ground level shall not be less than 500 mm.

Junction Boxes:

The junction boxes must be dust proof, vermin proof, and waterproof, and they must be manufactured of FRP / Thermoplastic. The terminals must be linked to a copper bus bar configuration of appropriate size. The junction boxes must have sufficient cable entry ports with proper cable glands for both incoming and outgoing cables. For simple identification, suitable markings must be supplied on the bus bar, and cable ferrules must be installed at the cable termination positions. Each main junction box must include an adequate rated blocking diode. The junction boxes must be of high quality.

Power Conditioning Unit (PCU):

As SPV array produce direct current electricity, it is necessary to convert this direct current into alternating current and adjust the voltage levels to match the grid voltage. Conversion shall be achieved using an electronic Inverter and the associated control and protection devices. All these components of the system are termed the "Power Conditioning Unit (PCU)". In addition, the PCU shall also house MPPT (Maximum Power Point Tracker), an interface between Solar PV array & the Inverter,

DC & AC Switches

DC SIDE:

- MCB of suitable rating shall be provided for connection and disconnection of array & PCU for maintenance purpose.
- Switches and Circuit Breakers on the DC side shall be DC rated or they shall be sufficiently de-rated, if AC rated switches are used.

AC SIDE:

MCB of suitable rating shall be provided for connection and disconnection of PCU & load.

Cables and accessories:

All the cables shall be supplied conforming to IEC 60227/IS 694 & IEC 60502/IS 1554 shall be of kV grade as per requirement. Only PVC copper cables shall be used.

The size of the cables between array interconnections, array to junction boxes, junction box to PCU, PCU to AC Distribution Box etc shall be selected to keep the voltage drop and losses to the minimum. Permissible Wire Drop on DC side shall be <= 1%

Earthing and Lightning Protection:

Earthing: The array structure of the PV shall be grounded properly using an adequate number of earthing kits. All metal casing or shielding of the solar power shall be thoroughly grounded to ensure safety of the solar power.

Lightning: The SPV solar power

The SPV solar power shall be provided with lightning & over voltage protection. The main aim in this protection shall be to reduce the over voltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc.

Solar Meter and Net Meter:

A separate Energy Meter called Solar Meter shall be provided at the output of PCU to record the energy generation from the Solar power System. (This energy meter should not be integrated with PCU). Solar energy meter means a unidirectional meter to be installed at the delivery point of the solar power energy system to measure the solar electricity generated. This Energy Meter should be tested along with the Net Meter.

Net meter: As per (Renewable Energy and Net Metering) Regulations 2020, net metering system is to be provided to the solar power consumer. Net meter means the bidirectional energy meter to be installed at the interconnection point of the consumer with the network of distribution licensee. Energy meters shall be installed and maintained in accordance with the provisions of the local electric cooperative. The Contractor /supplier shall maintain the Metering System as per coordination with local electric cooperative. The defective meter shall be immediately tested and rectified/ replaced. A solar meter and bidirectional energy meter suitable for the installed solar power shall be supplied and installed by the contractor after testing and sealing from respective supplier. Energy Meters must be provided with the necessary data cables if required. The solar energy meter and net energy meter shall be of accuracy as given and CT and PT shall be utilized according to metering regulations 2006 and its amendment.

Mechanical and Design Specification or Equivalent
Mono-Crystalline PV Modules (550W)

Cell Type	Gallium – doped Mono c-SI PERC, Half cut cells, 182mm
No. of cells	144
Glass	3.2mm, high transmission , AR coated , tempered
Encapsulation	EVA
Back cover	White back sheet
Junction box	IP 68 rated
Frame	35mm anodized Aluminum Alloy
Cable	1* 4mm^2, 350mm length customized
Connectors	MC 4 /MC 4 compatible
Dimension	2278mm * 1133mm * 35mm
Weight	27kg
Hail resistance	Max Ø25mm at 23 m/s
Wind load	2400 Pa / 244 kg/m^2
Mechanical load	5400 Pa / 550 kg/m^2

Temperature Ratings

Operating Temperature (°C)	- 40 to+ 85
Temp. coefficient of P_{max} (% / (°C))	-0.35
Temp. coefficient of V_{oc} (% / (°C)	-0.275
Temp. coefficient of I_{sc} (% / (°C)	-0.045
Non. operating temp. NOCT (°C)	45+/- 2

Electrical Specifications (STC)	AE550MD-144
Normal Max. Power P_{max} (Wp)	550
Maximum operating voltage V_{MPP} (V)	42.57
Maximum operating current I_{MPP} (A)	12.92
Open circuit voltage V_{oc} (V)	51.44
Short circuit current I_{sc} (A)	13.67
Module efficiency n (%)	21.31

*STC Standard test condition (Irradiance 1000 W/m^2, Cell temperature 25 °C and air mass of AM 1.5)

Electrical Specifications (NOMT*)	AE550MD-144
Normal Max. Power P_{max} (Wp)	414
Maximum operating voltage V_{MPP} (V)	40.10
Maximum operating current I_{MPP} (A)	10.34
Open circuit voltage V_{oc} (V)	47.80
Short circuit current I_{sc} (A)	10.94

EXECUTION

INSTALLATION

The installation of solar power PV modules on the roof deck must be installed as supplied, delivered and installed according to the supplier.

WORKMANSHIP

The work throughout shall be executed in the best and most thorough manner under the direction of and at the satisfaction of the Registered Electrical Engineer or Master Electrician, who will interpret the intent meaning of the drawings and specification and shall have the power to reject any work and materials which in his judgment, are not in full accordance therewith.

TESTING OPERATIONS

When the electrical installation is completed, the Contractor shall test the installed electrical materials and equipment in the presence of Registered Electrical Engineer or Master Electrician. The system shall be free from any defects, shorts or grounds. The Contractor at no extra cost shall furnish all necessary instruments and personnel required for the testing.

GUARANTEE

Upon completion and before final acceptance of the work, the Contractor shall furnish the Engineer a written guarantee stating that all works executed are free from defects on materials and workmanship. The guarantee shall be for a period of one year from the date of the final acceptance. Any work that becomes defective during the said period shall be corrected / replaced by the Contractor at his own expense in a manner satisfactory to the Authority.

ITEM 18 : PROJECT BILLBOARD

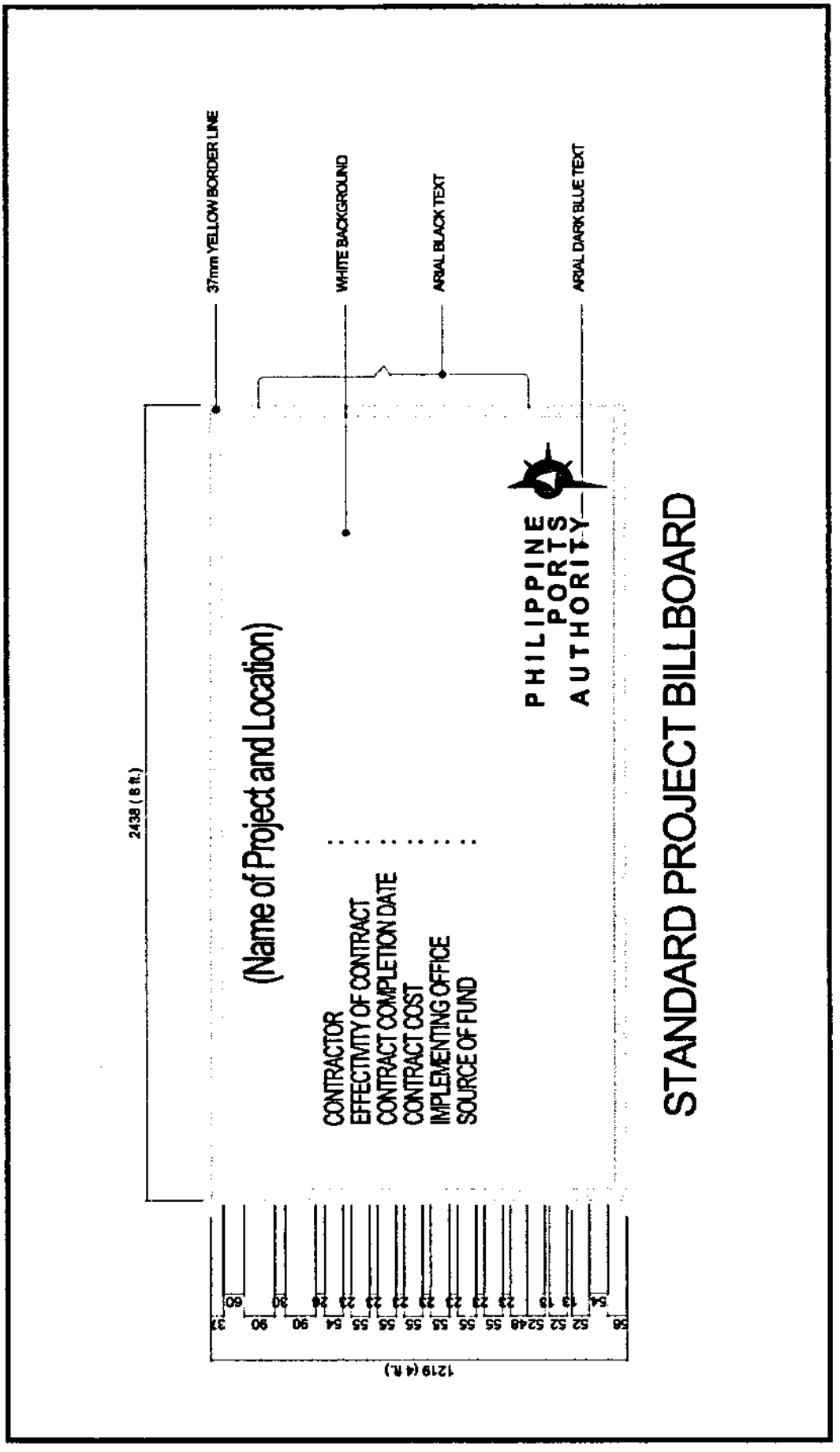
SPECIFICATION

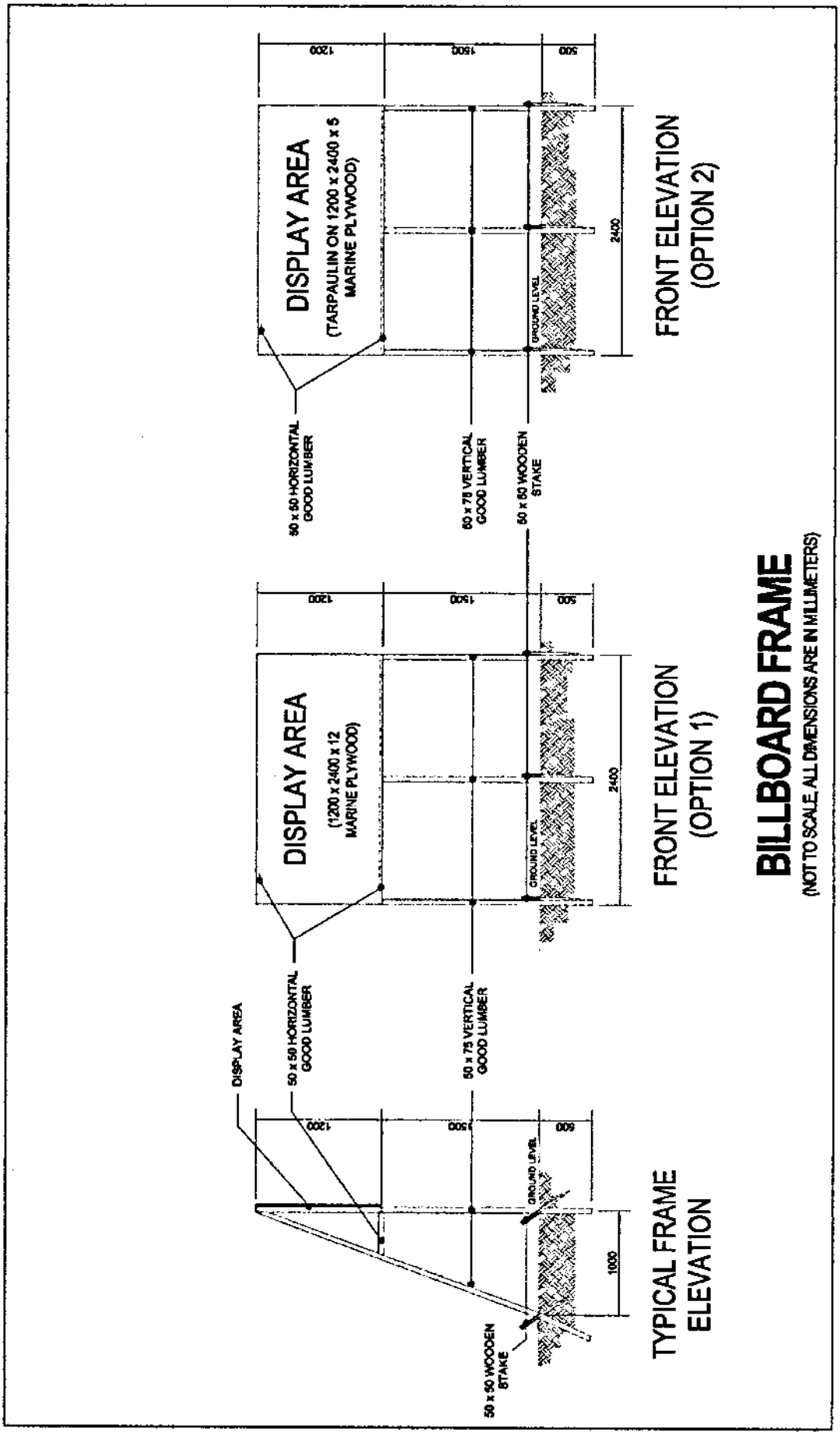
The Project Billboard shall be installed at location(s) designated by the Engineer.

The size and specifications of materials for the standard billboard shall be 4ft. x 8ft. (1,200mm x 2,400mm) using ½ inch (12mm) marine plywood or tarpaulin poster on 3/16 inch (5mm) marine plywood.

Project billboards shall not contain Name(s) and/or picture(s) of any personages.

See attached drawings for further details of the standard billboard.


STANDARD PROJECT BILLBOARD
PHILIPPINE PORTS AUTHORITY
(Name of Project and Location)
CONTRACTOR
EFFECTIVITY OF CONTRACT
CONTRACT COMPLETION DATE
CONTRACT COST
IMPLEMENTING OFFICE
SOURCE OF FUND
37mm YELLOW BORDER LINE
WHITE BACKGROUND
ARIAL BLACK TEXT
ARIAL DARK BLUE TEXT
2438 (8 ft.)
1219 (4 ft.)


BILLBOARD FRAME
(NOT TO SCALE, ALL DIMENSIONS ARE IN MILLIMETERS)
FRONT ELEVATION
(OPTION 2)
DISPLAY AREA
(TARPAULIN ON 1200 x 2400 x 6
MARINE PLYWOOD)
50 x 50 HORIZONTAL
GOOD LUMBER
50 x 75 VERTICAL
GOOD LUMBER
50 x 50 WOODEN
STAKE
GROUND LEVEL
1200
1500
500
2400
FRONT ELEVATION
(OPTION 1)
DISPLAY AREA
(1200 x 2400 x 12
MARINE PLYWOOD)
50 x 50 HORIZONTAL
GOOD LUMBER
50 x 75 VERTICAL
GOOD LUMBER
GROUND LEVEL
1200
1500
500
2400
TYPICAL FRAME
ELEVATION
DISPLAY AREA
50 x 50 HORIZONTAL
GOOD LUMBER
50 x 75 VERTICAL
GOOD LUMBER
50 x 50 WOODEN
STAKE
GROUND LEVEL
1200
1500
600
1000

ITEM 19 : SAFETY SIGNAGES AND BARRICADES

DESCRIPTION

This work includes the furnishing and installing of safety signages and barricades in accordance with the specifications and to the details shown below in the drawings, or as directed by the Engineer.

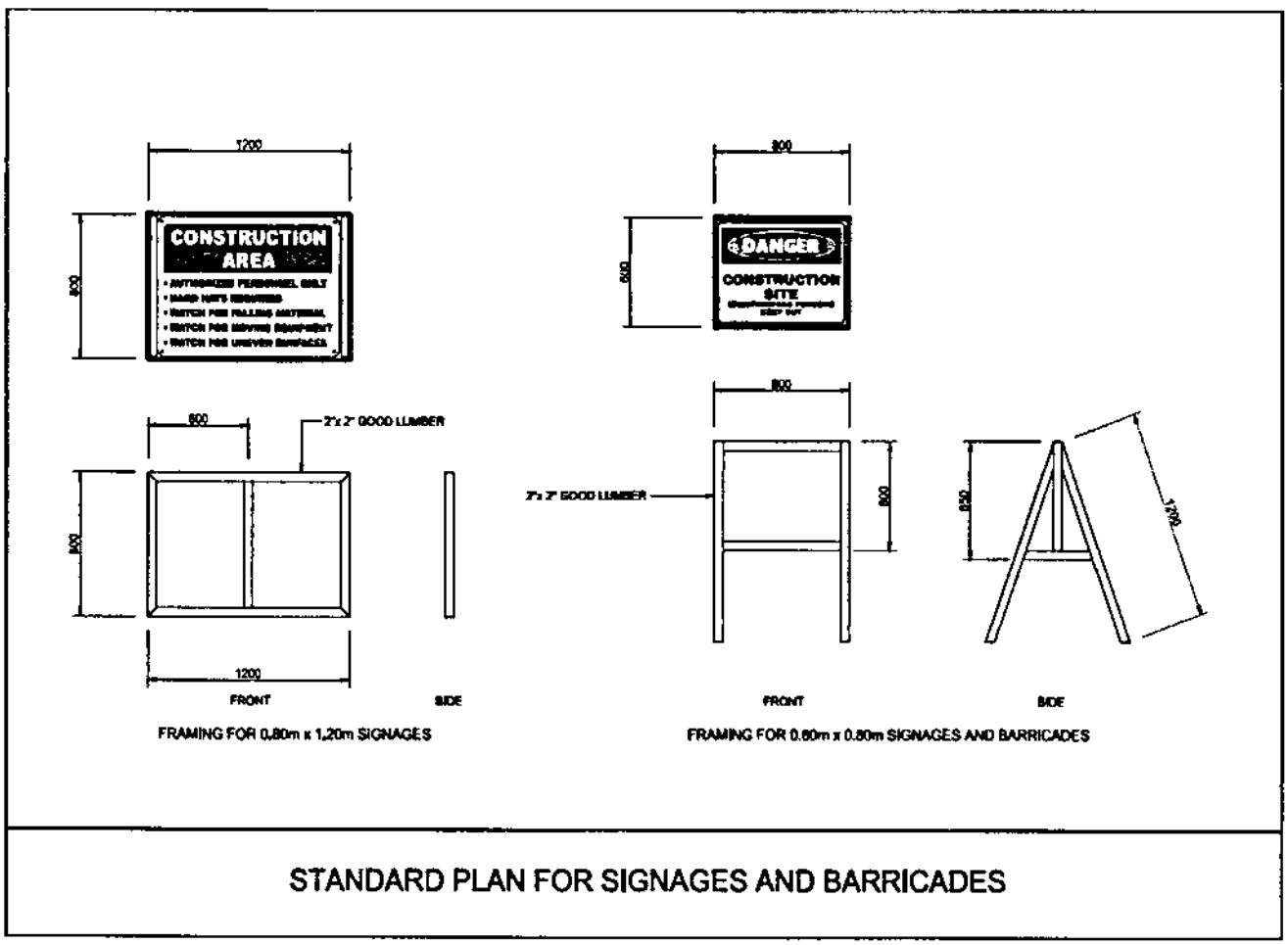
SPECIFICATION

The Signage's and Barricades shall be installed at location(s) designated by the Engineer.

The sizes of the standard signages shall be 2-2/3ft x 4ft (800mm X 1,200mm) for fixed type and 2ft x 2–2/3ft (600mm x 800mm) for mobile type. For barricade standard 2ft x 2–2/3ft (600mm x 800mm) shall be provided.

The materials to be used for signages and barricades are ½ inch (12mm) marine plywood or tarpaulin poster on 2" x 2" (50mm x 50mm) good lumber frame (see drawing below).

The printing or painting shall be the discretion of the Engineer.



STANDARD PLAN FOR SIGNAGES AND BARRICADES

SECTION VII

DRAWINGS
(APPROVED PLANS)

DRAWINGS AND APPROVED PLANS
(SEE ISSUED APPROVED PLANS)

LIST OF DRAWINGS:

ARCHITECTURAL:

A - 01 of 26	-	Perspectives, Vicinity Map, Table of Contents
A - 02 Of 26	-	Site Development Plan
A - 03 Of 26	-	Ground Floor Demolition Plan
A - 04 Of 26	-	Roof Demolition Plan
A - 05 Of 26	-	Floor Plan
A - 06 Of 26	-	Roof Plan
A - 07 Of 26	-	Front Elevation, Rear Elevation, Left Side Elevation
A - 08 Of 26	-	Right Side Elevation, Section Thru A-A', Section Thru B-B'
A - 09 Of 26	-	Reflected Ceiling Plan, Cove Detail 1, Cove Detail 2, Cove Detail 3, WPC Baffle Ceiling Spacing 1, WPC Baffle Ceiling Spacing 2
A - 10 Of 26	-	Reflected Ceiling Plan (Offices)
A - 11 Of 26	-	Wall Partition Layout
A - 12 Of 26	-	Wall Partition Layout (Above Curtain Glass Wall)
A - 13 Of 26	-	Floor Pattern Layout
A - 14 Of 26	-	Schedule of Doors, Windows and Glass Partitions
A - 15 Of 26	-	Schedule of Doors, Windows and Glass Partitions, Glass Curtain Wall System
A - 16 Of 26	-	Blow-Up Details of Male Toilet
A - 17 Of 26	-	Blow-Up Details of Female Toilet
A - 18 Of 26	-	Typical Blow-Up Details of All- Inclusive Toilets, Typical Blow-Up Details of Male & Female PWD Toilets
A - 19 Of 26	-	Blow-Up Details of Clinic's Toilet, Blow-Up Details of VIP Lounge / Family Area's Toilet, Flip-Up Bar Details (Typ.), Grab Bar Detail, Mirror Details (Typ.)

A - 20 of 26	-	Ramp 1 Blow-Up Details, Ramp 2 Blow-Up Details, Handrail Connection1, Stainless Steel Swing Gate
A - 21 of 26	-	Typical Blow-Up Details of Ticketing & Terminal Fee Room, Blow-Up Detail of VIP Lounge / Family Area's Counter
A - 22 of 26	-	PPA Logo Detail, Port Signage Detail, Foot Bath Details, Drinking Fountain Details, Floor Standing FCU Casing Details, Directional And Identification Signages Details
A - 23 of 26	-	Pahiyas Accent Pattern 1, Pahiyas Accent Pattern 2
A - 24 of 26	-	Bay Section @ Main Entrance, Bay Section @ Boarding Gate
A - 25 of 26	-	Perspective (Security/Inspection/X-Ray Area), Perspective (Concourse Area), Perspective (Ticketing Area), Perspective (Turnstile Gate)
A - 26 of 26	-	Perspective (Pre-Departure Area)

STRUCTURAL:

S - 01 of 15	-	General Notes
S - 02 of 15	-	Standard Details
S - 03 of 15	-	Foundation Plan
S - 04 of 15	-	Ceiling Framing Plan
S - 05 of 15	-	Steel Connection Details
S - 06 of 15	-	Wall Footing Details, Schedule of Steel Beams and Columns, Steel-Concrete Details, Base Plate Details, Section Details for ACP Parapet Wall with Metal Framing
S - 07 of 15	-	Plan View for Additional Steel Beams Above Existing Beam 2
S - 08 of 15	-	Elevation for Additional Steel Beams Above Existing Beam 2
S - 09 of 15	-	Elevation for Additional Steel beams Above Existing Beam 2
S - 10 of 15	-	Plan View for Steel Beams for Canopy
S - 11 of 15	-	Elevation for Steel Beams for Canopy
S - 12 of 15	-	Elevation for Steel Beams for Canopy
S - 13 of 15	-	Plan View for Additional Steel Beams Below and Above Beam 1
S - 14 of 15	-	Plan View for Additional Steel Beams Below and Above Beam 1
S - 15 of 15	-	Elevation for Additional Steel Beams Below and Above Beam 1

ELECTRICAL:

E- 01 of 09 - Lighting Layout Plan, Legend, Remarks

E- 02 of 09 - Lighting Layout Plan (Offices), Legend

E- 03 of 09 - Power Layout Plan, Legend

E- 04 of 09 - Air-condition Layout Plan, Legend

E- 05 of 09 - Load Schedule, Riser Diagram

E- 06 of 09 - Summary of Load Schedule/ Main Distribution Panel (MDP) Single Line Diagram

E- 07 of 09 - Concrete Pedestal Post, Detail of Handhole

E- 08 of 09 - Service Entrance Layout Plan, General Notes, Legend

E- 09 of 09 - Roof Deck Solar Module PV Layout Plan, Technical Specifications of Solar Panel, Notes, Legend

BGM/PA - 01 of 01 - BGM/PA Layout Plan, Notes on BGM/PA System, BGM/PA Single Line Diagram, Legend

FDAS - 01 of 01 - FDAS Layout Plan, FDAS Single line Diagram, Legend, Notes on FDAS

TEL - 01 of 01 - Telephone Layout Plan, Notes on Telephone System, Telephone Single Line Diagram, Legend

LP - 01 of 01 - Roof Lighting Protection Layout Plan

MECHANICAL:

ME- 01 of 06 - General Notes, Abbreviations, Drawing Index, Legends and Symbols, Sheet Metal Thickness and Reinforcement Schedule

ME- 02 of 06 - Equipment Schedule

ME- 03 of 06 - Airconditioning System Layout

ME- 04 of 06 - Supply Air System Layout, Ventilation System Layout

ME- 05 of 06 - Supply Air Duct Elevation Detail

ME- 06 of 06 - Miscellaneous Details

FIRE PROTECTION:

FP- 01 of 07	-	General Notes, Material Specifications, Equipment Schedule, Legend/ Symbols and Abbreviation, Schedule of Pipes Sleeves, Site Development Plan
FP- 02 of 07	-	Offices Fire Protection Layout
FP- 03 of 07	-	Ground Floor Fire Protection Layout
FP- 04 of 07	-	Fire Extinguisher Layout
FP- 05 of 07	-	Fire protection System Riser Diagram, Fire Pump Room Blow Up Plan, Fire Pump Room Longitudinal Section, Details of Pipe Sleeve, Details of Pipe Hanger, Details, of Flushing Connection
FP- 06 of 07	-	Miscellaneous Details-1
FP- 07 of 07	-	Miscellaneous Details-2

PLUMBING:

P- 01 of 10	-	Plumbing Layout Site Plan, Details of Septic tank, Details of Area Drain, General Notes and Specifications, Material Specifications Detail of Trenching, Bedding and Backfilling of Pipes
P- 02 of 10	-	Cold Water Supply Layout Plans from Pump House, STP Treated Water and Rainwater Tank
P- 03 of 10	-	Potable Water Supply Layout plans from Pumphouse Cistern tank, Schedule of Pipe (Water Line)
P- 04 of 10	-	Potable Water Line Isometric Plan
P- 05 of 10	-	Non-Potable Water Supply Layout Plans from STP Recycled Water and Rainwater Tank, Schedule of Pipe (Water Line)
P- 06 of 10	-	Non-Potable Water Line Isometric Plan
P- 07 of 10	-	Sewer and Vent Layout Plans, Schedule of Pipe (Sewer Line)
P- 08 of 10	-	Sewer and Vent Isometric Plan
P- 09 of 10	-	Storm Water Drainage Layout Plans, Schedule of Pipe (Storm Water)
P- 10 of 10	-	Storm Water Drainage Isometric Plan

PUMP HOUSE:

PH- 01 of 08	-	Perspectives, Site Development Plan, Floor Plan, Floor Plan (Cistern Tanks)
PH- 02 of 08	-	Roof Plan, Reflected Ceiling Plan, Front Elevation, Right Side Elevation Rear Elevation, Left Side Elevation
PH- 03 of 08	-	Section Thru A-A', Section Thru B-B', Section Thru C-C', Schedule of Doors and Windows
PH- 04 of 08	-	General Notes
PH- 05 of 08	-	Foundation Plan, Ground Floor Framing Plan, Roof Framing Plan
PH- 06 of 08	-	Retaining Wall Detail, Beam and Column Schedule, Manhole Cover Detail, Detail of Step-Up
PH- 07 of 08	-	Pump House Lighting and power Layout Plan, Schedule of Loads, Riser Diagram, Legend
PH- 08 of 08	-	Plumbing Fixture Details, Pump House Layout Plan

ANNEX:

ANNEX – 01 of 01	-	Ground Floor CCTV Layout

SECTION VIII

BILL OF QUANTITIES and ATTACHMENTS

BID SUMMARY

CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING

Port of Lucena, Quezon

NO.	DESCRIPTION OF WORK	AMOUNT (Pesos)
BILL NO. 1	GENERAL EXPENSES	
BILL NO. 2	REMOVAL, EXCAVATION AND DISPOSAL WORKS	
BILL NO. 3	CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING	
	BID PRICE	

Name of Firm

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

Date

BILL OF QUANTITIES

CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING

Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO. 1	GENERAL EXPENSES				
1.01	Mobilization, demobilization and cleaning	lot	1		
1.02	Rental of temporary site office and residence for the Engineer and staff	mo.	14		
1.03	Maintain temporary site office and residence for the Engineer and staff	mo.	14		
1.04	Provide Construction Safety and Health Program in the execution of the project	mo.	14		
	TOTAL FOR BILL NO. 1				

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	2 REMOVAL, EXCAVATION AND DISPOSAL WORKS				
2.01	Remove and dispose existing zocalo and smoothen with with mortar	l.m.	33		
2.02	Remove existing G.I. pipe and wire wall and turn-over to the authority	sq.m.	228		
2.03	Remove existing G.I. pipe and wire ceiling and turn-over to the authority	sq.m.	190		
2.04	Remove existing ICPB prior for construction of building, pumphouse, electrical works, pipes, and septic tank	sq.m.	610		
2.05	Excavate and backfill existing fill materials piror to the construction of wall footing, electrical works, septic tank, and up to required elevation for male and female toilet	cu.m.	321		
2.06	Remove and dispose existing slab on grade prior to the installation of ductbank, pipes, and for upgrading of elevation for toilet	sq.m.	190		
2.07	Remove and dispose existing concrete pavement prior to the installation of electrical works	sq.m.	27		
2.08	Remove portion of existing roofing	sq.m.	596		

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
2.09	Remove and dispose portion of existing CHB wall	sq.m.	672		
2.10	Remove and dispose existing ramp and stairs	sq.m.	45		
2.11	Remove existing curb on ramp and smoothen with mortar	l.m.	52		
	TOTAL FOR BILL NO. 2				

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
BILL NO.	3 CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING				
3.01	Supply & install Pre-insulated panels, Pre-painted Hi-rib Main Roofing-Single Metal (Rib-type) (0.6mm PPGL) with UPI Board 25mm thk on Louver Vent	sq.m.	346		
3.02	Supply & install 6mm thk. Solid polycarbonate roof sheet	sq.m.	163		
3.03	Supply, fabricate and install carpentry works for floor standing, pantry cabinets, and ticketing counter including marine plywood, good lumber, wood slats and other accessories	lot	1		
3.04	Construct 100mm thick CHB wall including reinforcement	sq.m.	35		
3.05	Construct 150mm thick CHB wall including reinforcement	sq.m.	477		
3.06	Supply & place 4,000 psi. concrete for wall footing	cu.m.	10		
3.07	Supply & install steel reinforcement for wall footing	kg.	330		
3.08	Construct 4,000 psi. concrete slab and ramp on-fill including reinforcement	sq.m.	329		
3.09	Supply, place and compact gravel bedding	cu.m.	33		
3.10	Supply, spread and compact aggregate sub-base course	cu.m.	35		
3.11	Supply and install Drywall partition	sq.m.	204		

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.12	Supply, fabricate & install structural steel for columns and beams	kg.	94,942		
3.13	Supply and apply Elastomeric paint (2-coats)	sq.m.	2,083		
3.14	Supply and apply Flat latex paint (2-coats)	sq.m.	1,107		
3.15	Supply and apply Quick dry enamel paint (2-coats)	sq.m.	15		
3.16	Supply and apply water proofing	sq.m.	161		
3.17	Supply and apply gloss acrylic water based roof paint with epoxy primer	sq.m.	2,112		
3.18	Supply and place 0.80mm thk. Wood Grain Laminated	sq.m.	243		
3.19	Supply and place Wood Composite Plastic (WPC) Fluted Panel	sq.m.	111		
3.20	Supply and install 1.2m x 0.6m Porcelain tile finish white marble	sq.m.	1,435		
3.21	Supply and install 0.6m x 0.6m Porcelain tile finish various design	sq.m.	507		
3.22	Supply and install 0.6m x 0.6m Unglazed Ceramic tile finish light gray	sq.m.	153		
3.23	Supply and install 0.6m x 0.6m non-slip tile finish	sq.m.	101		
3.24	Supply and install 0.3m x 1.5m Porcelain tile finish, wood look	sq.m.	135		

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.25	Supply and install 20-22mm aluminum profile entrance matting	sq.m.	30		
3.26	Supply and install 0.3m x 0.6m Glaze Ceramic wall tiles	sq.m.	375		
3.27	Supply and install Tactile Blocks	sq.m.	19		
3.28	Supply and install 12mm thk granite countertop and splash board	sq.m.	33		
3.29	Supply and place Stair Nosing	l.m.	199		
3.30	Supply and install Aluminum Composite Panels and accessories	sq.m.	404		
3.31	Supply and install 12mm thk. Gypsum board on 0.40mm thk galvanized steel ceiling suspension system at 0.40m O.C. (furring) carrying channel) and suspension rod	sq.m.	1,569		
3.32	Supply and install Aluminum Clip-in Perforated Panel including accessories (1.20m x 0.60m x 0.7mm)	sq.m.	1,155		
3.33	Supply and install Aluminum Clip-in Perforated Panel including accessories (0.60m x 0.60m x 0.7mm)	sq.m.	139		
3.34	Supply and install wood plastic composite panel (WPC) ceiling baffle, 50mm x 90mm	sq.m.	545		
3.35	Supply, fabricate and install stainless steel materials, buffed finish including skirting and other accessories	lot	1		

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.36	Supply and install fabricated 1.5 mm thk. Aluminum Framed Doors and Windows, clear tempered glass windows, and re-installation of newly removed windows including accessories	lot	1		
3.37	Supply and install fabricated Marine Plywood Finish Flush Doors including door jambs, hinges, locksets and other accessories	lot	1		
3.38	Supply and install fabricated Cold rolled steel emergency exit Doors with panic pushbar lock including jumbs and accessories	set	2		
3.39	Supply and install fabricated 12mm thk. Glass Partition including accessories	lot	1		
3.40	Supply and install fabricated 16mm thk. Low-E laminated glass curtain wall system including accessories	sq.m.	505		
3.41	Supply, fabricate and install Phenolic anti-bacterial water proof Toilet partition 12mm thk, including stainless hinges, lock indicators, bottom support door knobs, ledge, coat hooks and other accessories	lot	1		
3.42	Supply and install kitchen and toilet fixtures including accessories	lot	1		
3.43	Supply and install water line pipes and fittings including other accessories	lot	1		
3.44	Supply and install sewerage pipes and fittings including accessories.	lot	1		
3.45	Supply and install drainage pipes and fittings including accessories.	lot	1		

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.46	Construct septic vault including fittings and accessories	no.	2		
3.47	Construct Pumphouse including apurtenances	lot	1		
3.48	Supply, deliver and install wires and cables of various sizes	lot	1		
3.49	Supply, deliver and install conduit pipe including fittings of various sizes	lot	1		
3.50	Supply, deliver and install wiring devices	lot	1		
3.51	Supply, deliver and install protective devices	lot	1		
3.52	Supply, deliver and install lighting fixtures	lot	1		
3.53	Supply, deliver and install lightning protection and accessories	lot	1		
3.54	Supply, deliver and install auxiliary system:				
	a) Background Music / Paging Alarm (BGM/PA)	lot	1		
	b) Fire Detection Alarm System (FDAS)	lot	1		
	c) Telephone System	lot	1		
3.55	Supply, deliver and install airconditioning unit and other apurtenances	lot	1		
3.56	Supply, deliver and install Ventillation unit and other apurtenances	lot	1		

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.57	Supply and install fire protection system including testing, commisioning, fire extinguishers and other accessories	lot	1		
3.58	Construct Reinforced Concrete for duct bank, handhole, and pedestal post	lot	1		
3.59	Supply, deliver and install directional and identification signages including accessories	lot	1		
3.60	Supply and install Photoluminescent signs & path marking for emergency route including its accessories	lot	1		
3.61	Supply and deliver office furnitures, gang chairs, and drinking fountain	lot	1		
3.62	Supply, deliver and install Turnstile Gate Access Control System Integrated to QR code ticketing system including appurtenances	lot	1		
3.63	Supply, deliver and install PPA Logo and pahiyas accent pattern including accessories	lot	1		
3.64	Supply, deliver and install distribution transformer including accessories and other incidental expenses	lot	1		
3.65	Restoration of demolished pavement and slab on grade	sq.m.	217		
3.66	Re-installation of removed interlocking concrete paving blocks	sq.m.	97		

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BILL OF QUANTITIES
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING
Port of Lucena, Quezon

NO. (1)	DESCRIPTION OF WORK (2)	UNIT (3)	QTY. (4)	UNIT PRICE (Pesos) (5)	AMOUNT (Pesos) (4) x (5)
3.67	Supply deliver and install solar panel system including framing, incidental expenses, and other accessories	lot	1		
	TOTAL FOR BILL NO. 3				

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

BASIS OF PAYMENT FOR WORK ITEMS INCLUDED IN THE PROPOSAL

The work items included in the proposal and the basis of payments are as follows:

BILL NO. 1
GENERAL EXPENSES

Item 1.01 Mobilization, demobilization, and cleaning

The quantity to be paid for shall be the minimum equipment requirement enumerated in the bid documents mobilized, demobilized and cleaning of the site and accepted by the Engineer. The contract lump sum price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to mobilize and demobilize all the minimum equipment requirement enumerated in the bid documents including cleaning of the site. Fifty percent (50%) of the total amount shall be payable after the mobilization activity while the remaining (50%) payable after demobilization and cleaning.

Item 1.02 Rental of temporary site office and residence for the Engineer and staff

The quantity to be paid for shall be the actual rental of site office and residence for the engineer and staff and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary for the provision of temporary site office and residence for the engineer and staff.

Item 1.03 Maintain temporary site office and residence for the Engineer and staff

The quantity to be paid for shall be the actual services rendered in maintaining the site office and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the maintenance of the temporary site office and residence as well as other expenses such as provision for electric power, telephone bill, potable water supply, janitorial and security services.

Item 1.04 Provide construction safety and Health Program in the execution of the project

The quantity to be paid for shall be the actual implementation of construction safety and health program and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the implementation of the Construction Safety and Health Program, as required and approved by the Department of Labor and Employment (DOLE).

BILL NO. 2
REMOVAL, EXCAVATION AND DISPOSAL WORKS

Item 2.01 **Remove and dispose existing zocalo and smoothen with mortar**

The quantity to be paid for shall be the actual length in linear meter of existing zocalo to be removed, disposed and smoothened with mortar in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.02 **Remove existing G.I. pipe and wire wall and turn-over to the authority**

The quantity to be paid for shall be the actual area in square meter of existing G.I. pipe and wire wall to be removed and turned over to authority in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.03 **Remove existing G.I. pipe and wire ceiling and turn-over to the authority**

The quantity to be paid for shall be the actual area in square meter of existing G.I. pipe and wire ceiling to be removed and turned over to authority in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.04 **Remove existing ICPB prior for construction of building, pumphouse, electrical works, pipes, and septic tank**

The quantity to be paid for shall be the actual area in square meter of existing ICPB to be removed prior for the construction of building, pumphouse, electrical works and septic tank in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.05 **Excavate and backfill existing fill materials prior to the construction of wall footing, electrical works, septic tank, and up to required elevation for male and female toilet**

The quantity to be paid for shall be the actual volume in cubic meter of existing fill materials to be excavated prior to the construction of wall footing, electrical works, septic tank and the upgraded elevation for male and female toilet, including backfilling thereinafter in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.06 **Remove and dispose existing slab on grade prior to the installation of ductbank, pipes, and for upgrading of elevation for toilet**

The quantity to be paid for shall be the actual area in square meter of existing slab on grade to be removed prior to the installation of duct bank, pipes, and for upgrading of elevation for toilet including disposal of debris in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.07 **Remove and dispose existing concrete pavement prior to the installation of electrical works**

The quantity to be paid for shall be the actual area in square meter of existing concrete pavement to be removed prior to the installation of electrical works including disposal of debris in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.08 **Remove portion of existing roofing**

The quantity to be paid for shall be the actual area in square meter of portion of existing roofing to be removed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.09 **Remove and dispose portion of existing CHB wall**

The quantity to be paid for shall be the actual area in square meter of portion of existing CHB wall to be removed and disposed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.10 **Remove and dispose existing ramp and stairs**

The quantity to be paid for shall be the actual area in square meter of existing ramp and stairs to be removed and disposed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 2.11 **Remove existing curb on ramp and smoothen with mortar**

The quantity to be paid for shall be the actual length in linear meter of existing curb on ramp to be removed and smoothened with mortar in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

BILL NO. 3
CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING

Item 3.01 **Supply & install pre-insulated panels, Pre-painted Hi-rib Main Roofing-Single Metal (Rib-type) (0.6mm PPGL) with UPI Board 25mm thk on Louver Vent**

The quantity to be paid for shall be the actual area in square meter of Pre-insulated panels, pre-painted Hi-rib Main Roofing-Single Metal (Rib-type) (0.6mm PPGL) with UPI Board 25mm thk on Louver Vent to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.02 Supply & install 6mm thk. Solid polycarbonate roof sheet

The quantity to be paid for shall be the actual area in square meter of 6mm thk Solid Polycarbonate roof sheet to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.03 Supply, fabricate and install carpentry works for floor standing, pantry cabinets, and ticketing counter including marine plywood, good lumber, wood slats and other accessories

The quantity to be paid for shall be the actual lot of carpentry works for floor standing, pantry cabinets, and ticketing counter including marine plywood, good lumber, wood slats and other accessories to be supplied, fabricated and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.04 Construct 100mm thick CHB wall including reinforcement

The quantity to be paid for shall be the actual area in square meter of 100mm thick CHB wall including reinforcement to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.05 Construct 150mm thick CHB wall including reinforcement

The quantity to be paid for shall be the actual area in square meter of 150mm thick CHB wall including reinforcement to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.06 Supply & place 4,000 psi. concrete for wall footing

The quantity to be paid for shall be the actual volume in cubic meter of 4,000 psi. concrete for wall footing to be supplied and set-in-placed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.07 Supply & install steel reinforcement for wall footing

The quantity to be paid for shall be the actual weight in kilogram of steel reinforcement for wall footing to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.08 Construct 4,000 psi. concrete slab and ramp on-fill including reinforcement

The quantity to be paid for shall be the actual area in square meter of 4,000 psi, concrete slab and ramp on-fill including reinforcement to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price

shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.09 Supply, place and compact gravel bedding

The quantity to be paid for shall be the actual volume in cubic meter of gravel bedding to be supplied, placed and compacted in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.10 Supply, spread and compact aggregate sub-base course

The quantity to be paid for shall be the actual volume in cubic meter of aggregate sub-base course to be supplied, spread and compacted in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work. Hydrographic/Topographic Surveys before and after placing of aggregate subbase course shall be made to determine the actual elevations along the cross sections and the actual quantities for payment. Volume due to settlement as established using settlement plates shall also be considered for payment. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.11 Supply and install Drywall partition

The quantity to be paid for shall be the actual area in square meter of drywall partition to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.12 Supply, fabricate & install structural steel for columns and beams

The quantity to be paid for shall be the actual weight in kilogram of structural steel for columns and beams to be supplied, fabricated, and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.13 Supply and apply Elastomeric paint (2-coats)

The quantity to be paid for shall be the actual area in square meter of elastomeric paint (2-coats) to be supplied and applied in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.14 Supply and apply Flat latex paint (2-coats)

The quantity to be paid for shall be the actual area in square meter of flat latex paint (2-coats) to be supplied and applied in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.15 Supply and apply Quick dry enamel paint (2-coats)

The quantity to be paid for shall be the actual area in square meter of quick dry enamel paint (2-coats) to be supplied and applied in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.16 Supply and apply water proofing

The quantity to be paid for shall be the actual area in square meter of water proofing to be supplied and applied in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.17 Supply and apply gloss acrylic water-based roof paint with epoxy primer

The quantity to be paid for shall be the actual area in square meter of gloss acrylic water-based roof paint with epoxy primer to be supplied and applied in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.18 Supply and place 0.80mm thk. Wood Grain Laminated

The quantity to be paid for shall be the actual area in square meter of 0.8mm thk. Wood Grain Laminated to be supplied and placed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.19 Supply and place Wood Composite Plastic (WPC) Fluted Panel

The quantity to be paid for shall be the actual area in square meter of Wood Composite Plastic (WPC) Fluted Panel to be supplied and placed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.20 Supply and install 1.2m x 0.6m Porcelain tile finish white marble

The quantity to be paid for shall be the actual area in square meter of 1.2m x 0.6m Porcelain tile finish white marble to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.21 Supply and install 0.6m x 0.6m Porcelain tile finish various design

The quantity to be paid for shall be the actual area in square meter of 0.6m x 0.6m Porcelain tile finish of various design to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.22 Supply and install 0.6m x 0.6m Unglazed Ceramic tile finish light gray

The quantity to be paid for shall be the actual area in square meter of 0.6m x 0.6m Unglazed Ceramic tile finish, light gray to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.23 Supply and install 0.6m x 0.6m non-slip tile finish

The quantity to be paid for shall be the actual area in square meter of 0.6m x 0.6m non-slip tile finish to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.24 Supply and install 0.3m x 1.5m Porcelain tile finish, wood look

The quantity to be paid for shall be the actual area in square meter of 0.3m x 1.5m porcelain tile finish, wood look to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.25 Supply and install 20-22mm aluminum profile entrance matting

The quantity to be paid for shall be the actual area in square meter of 20-22mm aluminum profile entrance matting to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.26 Supply and install 0.3m x 0.6m Glaze Ceramic wall tiles

The quantity to be paid for shall be the actual area in square meter of 0.3m x 0.6m Glazed Ceramic wall tiles to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.27 Supply and install Tactile Blocks

The quantity to be paid for shall be the actual area in square meter of Tactile Blocks to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.28 Supply and install 12mm thk granite countertop and splash board

The quantity to be paid for shall be the actual area in square meter of 12mm thk granite countertop and splash board to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.29 Supply and place Stair Nosing

The quantity to be paid for shall be the actual length in linear meter of stair nosing to be supplied and placed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.30 Supply and install Aluminum Composite Panels and accessories

The quantity to be paid for shall be the actual area in square meter of Aluminum Composite panels and accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.31 Supply and install 12mm thk. Gypsum board on 0.40mm thk galvanized steel ceiling suspension system at 0.40m O.C. (furring) carrying channel) and suspension rod

The quantity to be paid for shall be the actual area in square meter of 12mm thk. Gypsum board on 0.40mm thk galvanized steel ceiling suspension system at 0.40m O.C. (furring) carrying channel) and suspension rod to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.32 Supply and install Aluminum Clip-in Perforated Panel including accessories (1.20m x 0.60m x 0.7mm)

The quantity to be paid for shall be the actual area in square meter of Aluminum Clip-in Perforated Panel including accessories (1.20m x 0.60m x 0.7mm) to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.33 Supply and install Aluminum Clip-in Perforated Panel including accessories (0.60m x 0.60m x 0.7mm)

The quantity to be paid for shall be the actual area in square meter of Aluminum Clip-in Perforated Panel including accessories (0.60m x 0.60m x 0.7mm) to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.34 Supply and install wood plastic composite panel (WPC) ceiling baffle, 50mm x 90mm

The quantity to be paid for shall be the actual area in square meter of Wood Plastic Composite Panel (WPC) ceiling baffle, 50mm x 90mm to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.35 Supply, fabricate and install stainless steel materials, buffed finish including skirting and other accessories

The quantity to be paid for shall be the actual lot of stainless steel materials, buffed finish including skirting and other accessories to be supplied, fabricated and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.36 Supply and Install fabricated 1.5mm thk. Aluminum Framed Doors and Windows, clear tempered glass windows, and re-installation of newly removed windows including accessories

The quantity to be paid for shall be the actual lot of fabricated 1.5mm thk. Aluminum Framed Doors and Windows, clear tempered glass windows to be supplied and installed, including re-installation of newly removed windows and accessories in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.37 Supply and Install fabricated Marine Plywood Finish Flush Doors including door jambs, hinges, locksets and other accessories

The quantity to be paid for shall be the actual lot of fabricated Marine Plywood Finish Doors including door jambs, hinges, locksets and other accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.38 Supply and Install fabricated Cold rolled steel emergency exit Doors with panic push bar lock including jambs and accessories

The quantity to be paid for shall be the actual set of fabricated Cold rolled steel emergency exit doors with panic push bar lock including jambs and accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.39 Supply and Install fabricated 12mm thk. Glass Partition including accessories

The quantity to be paid for shall be the actual lot of fabricated 12mm thk. Glass partition including accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.40 Supply and Install fabricated 16mm thk. Low-E laminated glass curtain wall system including accessories

The quantity to be paid for shall be the actual area in square meter of fabricated 16mm thk. Low-E laminated glass curtain wall system including accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.41 **Supply, fabricate and install Phenolic anti-bacterial waterproof Toilet partition 12mm thk, including stainless hinges, lock indicators, bottom support doorknobs, ledge, coat hooks and other accessories**

The quantity to be paid for shall be the actual lot of Phenolic anti-bacterial water proof Toilet partition 12mm thk. including stainless hinges, lock indicators, bottom support doorknobs, ledge, coat hooks and other accessories to be supplied, fabricated and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.42 **Supply and install kitchen and toilet fixtures including accessories**

The quantity to be paid for shall be the actual lot of kitchen and toilet fixtures including accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.43 **Supply and install water line pipes and fittings including other accessories**

The quantity to be paid for shall be the actual lot of water line pipes and fittings including other accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.44 **Supply and install sewerage pipes and fittings including accessories**

The quantity to be paid for shall be the actual lot of sewerage pipes and fittings including accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.45 **Supply and install drainage pipes and fittings including accessories**

The quantity to be paid for shall be the actual lot of drainage pipes and fittings including accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.46 **Construct septic vault including fittings and accessories**

The quantity to be paid for shall be the actual number of septic vault including fittings and accessories, to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.47 **Construct Pumphouse including appurtenances**

The quantity to be paid for shall be the actual lot of Pumphouse including appurtenances to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for

furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.48 Supply, deliver and install wires and cables of various sizes

The quantity to be paid for shall be the actual lot of wires and cables of various sizes to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.49 Supply, deliver and install conduit pipe including fittings of various sizes

The quantity to be paid for shall be the actual lot of conduit pipe including fittings of various sizes to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.50 Supply, deliver and install wiring devices

The quantity to be paid for shall be the actual lot of wiring devices to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.51 Supply, deliver and install protective devices

The quantity to be paid for shall be the actual lot of protective devices to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.52 Supply, deliver and install lighting fixtures

The quantity to be paid for shall be the actual lot of lighting fixtures to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.53 Supply, deliver and install lightning protection and accessories

The quantity to be paid for shall be the actual lot of lightning protection and accessories to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.54 Supply, deliver and install auxiliary system:
a) Background Music / Paging Alarm (BGM/PA)
b) Fire Detection Alarm System (FDAS)
c) Telephone System

The quantity to be paid for shall be the actual lot of auxiliary system to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.55 Supply, deliver and install air-conditioning unit and other appurtenances

The quantity to be paid for shall be the actual lot of air conditioning unit and other appurtenances to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.56 Supply, deliver and install Ventilation unit and other appurtenances

The quantity to be paid for shall be the actual lot of ventilation unit and other appurtenances to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.57 Supply and install fire protection system including testing, commissioning, fire extinguishers and other accessories

The quantity to be paid for shall be the actual lot of fire protection system including testing, commissioning, fire extinguishers and other accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.58 Construct Reinforced Concrete for duct bank, handhole, and pedestal post

The quantity to be paid for shall be the actual lot of reinforced concrete for duct bank, handhole, and pedestal post to be constructed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.59 Supply, deliver and install directional and identification signages including accessories

The quantity to be paid for shall be the actual lot of directional and identification signages including accessories to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.60 Supply and install Photoluminescent signs & path marking for emergency route including its accessories

The quantity to be paid for shall be the actual lot of Photoluminescent signs and path marking for emergency route including its accessories to be supplied and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.61 Supply and deliver office furniture's, gang chairs, and drinking fountain

The quantity to be paid for shall be the actual lot of office furniture's, gang chairs, and drinking fountain to be supplied and delivered to site in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full

compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.62 **Supply, deliver and install Turnstile Gate Access Control System Integrated to QR code ticketing system including appurtenances**

The quantity to be paid for shall be the actual lot of Turnstile Gate Access Control System Integrated to QR code ticketing system including appurtenances to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.63 **Supply, deliver and install PPA Logo and Pahiyas accent pattern including accessories**

The quantity to be paid for shall be the actual lot of PPA Logo and Pahiyas Accent pattern including accessories to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.64 **Supply, deliver and install distribution transformer including accessories and other incidental expenses**

The quantity to be paid for shall be the actual lot of distribution transformer including accessories and other incidental expenses to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.65 **Restoration of demolished pavement and slab on grade**

The quantity to be paid for shall be the actual area in square meter of demolished pavement and slab on grade to be restored in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.66 **Re-installation of removed interlocking concrete paving blocks**

The quantity to be paid for shall be the actual area in square meter of removed interlocking concrete paving blocks to be re-installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Item 3.67 **Supply deliver and install solar panel system including framing, incidental expenses, and other accessories**

The quantity to be paid for shall be the actual lot of solar panel system including framing, incidental expenses, and other accessories to be supplied, delivered and installed in accordance with the plans and specifications and accepted by the Engineer. The contract unit price shall be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the work.

FACILITIES TO BE PROVIDED FOR THE ENGINEER & HIS STAFF

RENTAL OF SITE OFFICE AND RESIDENCE FOR THE ENGINEER & STAFF

The Contractor shall provide a temporary site office and residence (rental) with an area of at least 48 square meters for use of the Engineer and his staff for the whole duration of the project.

MINIMUM MAJOR EQUIPMENT REQUIREMENTS

1	unit/s	Air Compressor (250 cfm, minimum), owned
1	unit/s	Backhoe (0.40 cu.m., 94.30hp, minimum), owned
1	unit/s	Concrete cutter, owned
2	unit/s	Concrete Mixer (1 bagger, minimum), owned
2	unit/s	Concrete Vibrator (3.5 hp, minimum), owned
1	unit/s	Dump Truck (10T net capacity, minimum), owned
2	unit/s	Bar Bender (electric, 25mm dia min.), owned
2	unit/s	Bar Cutter (electric, 25mm dia min.), owned
1	unit/s	Jackhammer, owned
1	unit/s	Oxy/Acetylene cutting outfit, owned
1	unit/s	Payloader (80 hp, minimum), owned/leased
1	unit/s	Plate Compactor (5 hp, minimum), owned
1	unit/s	Road Grader (125 hp, minimum), owned/leased
1	unit/s	Road Roller (10T, vibratory, minimum), owned/leased
1	unit/s	Water Truck with pump (1,000 gal., minimum), owned
2	unit/s	Welding Machine (400 amp., minimum), owned
1	unit/s	Cargo Truck (2T, minimum) , owned

CONSTRUCTION SAFETY AND HEALTH REQUIREMENT

The Contractor shall implement the construction safety and health program in accordance with the applicable provisions of the Occupational Safety and Health Standards (OSHS) of the Department of Labor and Employment (DOLE).

The Contractor, subject to the approval of the Engineer shall provide and maintain throughout the duration of the contract a medical room with at least 15 square meters together with all necessary supplies to be sited in the Contractor's main area.

The Contractor shall provide the following minimum requirements:

L A B O R

1	no.	Safety Engineer / Officer
1	no.	Nurse / Health Officer

EQUIPMENT / MATERIALS

Personnel Protective Equipment

33	pcs.	Hard Hats
33	pairs	Gloves (rubberized)
33	pcs.	Safety Glasses/Goggles (clear)
66	pcs.	Long sleeve T-shirt
4	pcs.	Aprons
33	pairs	Safety Shoes

Safety Devices

1	lot	Barricades
1	lot	Warning signs
2	unit/s	Fire extinguisher (10kg)

Medical and First Aid System - Fourteen (14) mos.

NOTE:

The Contractor shall provide the above-cited minimum construction safety and health requirements or as required by the Engineer.

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REVISED SCHEDULE OF MINIMUM TEST REQUIREMENTS OF CONSTRUCTION MATERIALS FOR PPA INFRASTRUCTURE PROJECTS

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
I. Construction of Pier/Wharf, Platform and Ramp		
Structural Concrete (SC)		
A Portland Cement	Quality Test	For every 2,000 bags (40kg) or fraction thereof
B Fine Aggregate	Quality Test for Grading, Elutriation (wash), Bulk Specific Gravity, Absorption, Mortar Strength, Soundness, Organic Impurities, Unit Weight, % Clay Lumps and Shale	For every 1,500 cubic meter or fraction thereof
C Coarse Aggregate	Quality Test for Grading, Bulk Specific Gravity, Absorption and Abrasion	For every 1,500 cubic meter or fraction thereof
D Water	Certificate from the Engineer or Quality Test for Density and Chloride Content	One per source
E Steel Bars	Mill Certificate and Quality Test for Chemical Composition and Mechanical Properties	For every 10,000 kg or fraction thereof
F Concrete	Compressive Strength on cylinder samples	1 set consisting of 3 concrete cylinder samples shall be taken from each day's pouring and to represent not more than 75 cu m of concrete or fraction thereof
	Slump Test	For every mix
G Admixture and Concrete Curing Materials	Quality Test	One per shipment
Piling (P)		
A Concrete Piles	Fabrication Report	One per fabrication
1 Concrete	Same test as for SC (F)	Same frequency as SC (F)
2 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
3 High Tension Strand	Test for Chemical Composition and Mechanical Properties	For every 20000kg or fraction thereof

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
4 Coarse Aggregates	Same Test as for SC (C)	Same frequency as SC (C)
5 Fine Aggregates	Same Test as for SC (B)	Same frequency as SC (B)
B Steel Pipe Piles	Fabrication Report, Mill Certificate and Quality Test for Chemical and Mechanical properties	One per fabrication
1 Steel	Chemical Composition (refer below)	
	- Under 14" (355 60mm) Outside Diameter	2 from 200 pipe of fraction thereof
	- 14" to 36" (355 6 to 914mm) Outside Dia	2 from 100 pipe or fraction thereof
	- Over 36" (914mm) Outside Diameter	2 from 3000ft (914m) or fraction thereof
	Mechanical/Tensile	One (1) tension test shall be made on one length or fraction thereof of each size, or one piece of skelp representing each lot of 200 lengths or fraction thereof of each size
2 Polyurethane Coating	Mill Certificate and Quality Test	One per fabrication
3 Concrete	Same test as for SC (F)	Same frequency as SC (F)
4 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
5 Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
6 Steel Bars	Same Test as SC (E)	Same frequency as SC (E)
7 Water	Same Test as SC (D)	Same frequency as SC (D)
Rubber Dock Fenders (RDF)	Physical Test	All units
	Performance Test for Energy Absorption and Reaction Force	All units
Accessories		
Washer and Fixing Bolt, Anchor Bolt	Physical Test	All units
	Quality Test for Chemical Composition and Mechanical Properties	One per fabrication

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
Mooring Bollard (MB) and Accessories (Hexagon Nuts, Plain Washer, Anchor Ring and Anchor Bolt)	Physical Test Quality Test for Chemical Composition and Mechanical Properties	All Units One per fabrication
II. Construction of Back-Up Area, Causeway and Pavement Sheet Piling (SP)		
A Concrete Sheet Piles		
1 Concrete	Same test as for SC (F)	Same frequency as SC (F)
2 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
3 High Tension Strands	Same test as for P (A 3)	Same frequency as P (A 3)
4 Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
5 Coase Aggregates	Same Test as for SC (C)	Same frequency as SC (C)
B Steel Pipe Piles		
1 Steel	Same test as for P (B1)	Same frequency as P (B1)
2 Concrete	Same test as for SC (F)	Same frequency as SC (F)
3 Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
4 Steel Bars	Same test as for SC (E)	Same frequency as SC (E)

Materials/Items of Work	***Required Tests***	***Minimum Incremental Frequency of Tests***
Rocks	Test for Apparent Specific Gravity and Abrasion	For every 1,500 cubic meter or fraction thereof
Geotextile Filter	Physical and Mechanical Test Mill Certificate	One per batch One per batch
Sand and Gravel Fill	Quality Test for Organic Impurities and Grading	For every 1,500 cubic meter or fraction thereof
Selected Fill	Quality Test for Grading, Plasticity and Laboratory Compaction Test Laboratory California Bearing Ratio (CBR) Field Density Test	For every 1,500 cubic meter or fraction thereof For every 2,500 cubic meter or fraction thereof For every layer of 150mm of compacted depth at least one group of three in-situ density test for every 500 sq m or fraction thereof
Aggregate Base Course	Quality Test for Grading and Plasticity Quality Test for Grading, Plasticity, Abrasion and Laboratory Compaction Test Laboratory California Bearing Ratio (CBR) Field Density Test	For every 300 cubic meter or fraction thereof For every 1,500 cubic meter or fraction thereof Same frequency as Selected Fill Same frequency as Selected Fill
Portland Cement Concrete Pavement (PCCP)		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Steel Bars (Dowels)	Same test as for SC (E)	Same frequency as SC (E)
F Joint Filler	Quality Test	One (1) per shipment

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
G Admixture and Concrete Curing Material	Same test as for SC (G)	Same frequency as SC (G)
H Concrete	Same test as for SC (F)	Same frequency as SC (F)
	Flexural Test	3 beam samples for every 330 sq m or fraction thereof
I Completed Pavement	Core Test	1 set (3 specimen) for every 2,500 sq m and fraction thereof
Interlocking Concrete Blocks		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregate	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Admixture & Concrete Curing Materials	Same test as for SC (G)	Same frequency as SC (G)
F Completed Blocks	Physical Test and Compressive Strength	6 blocks per day of fabrication
Cement Treated Base Course (CTB)		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine & Coarse Aggregates	Quality Test for Grading, Abrasion and Soundness	For every 1,500 cubic meter or fraction thereof
C Water	Same test as for SC (D)	Same frequency as SC (D)
D Completed CTB	Field Density Test	For every layer of 150mm of compacted depth at least one group of three In-situ density test every 500 sq m or fraction thereof
Retaining Wall/Coping Wall/RC Curb/RC Ditch/Shear Key/Concrete Blocks\Lean Concrete		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregate	Same test as for SC (B)	Same frequency as SC (B)

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Steel Bars	Same test as for SC (E)	Same frequency as SC (E)
F Admixture and Concrete Curing	Same test as for SC (G)	Same frequency as SC (G)
G Concrete	Same test as for SC (F)	Same frequency as SC (F)
Tie Rod		
A Steel	Same test as for SC (E)	One per batch
B Assembly	Performance Test (Tension)	One per batch
Tie Bars and Dowels	Same test as for SC (E)	For every 10,000 kg or fraction thereof per Tie bars and Dowels
Pipe Culverts and Storm Drains		
A Pipes	Test for Strength, Absorption and Physical	For every 50 pieces
B Mortar or Joint	Same Test as for SC (A,B and D) Alternative Test Same test as for SC (F) and Inspection Report	For every 25 pieces
Concrete Hollow Blocks		
A Portland Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Water	Same test as for SC (D)	Same frequency as SC (C)
D Concrete	Same test as for SC (F)	Same frequency as SC (F)
E Completed CHB	Quality Test	One for every 500 pieces or fraction thereof
Construction Joints (CJ)		
A Angle Bars	Test for Physical and Mechanical Properties	One per batch
B Steel Bars	Same test as for SC (E)	One per batch
C Zinc (Hot Dip Galvanizing) Coatings	Physical Test for Appearance, Stripping, Weighing, Adherence and Adhesion	All units
	Coating Thickness Magnetic Thickness Measurement	1 set (3 specimen) for every 100,000 sq mm or fraction thereof

Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
Sacked Concrete		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Concrete	Same test as for SC (F)	Same frequency as SC (F)
F Sack (jute)	Physical Test	One for every 50 pieces
Rubble Concrete		
A Cement	Same test as for SC (A)	Same frequency as SC (A)
B Fine Aggregates	Same test as for SC (B)	Same frequency as SC (B)
C Coarse Aggregates	Same test as for SC (C)	Same frequency as SC (C)
D Water	Same test as for SC (D)	Same frequency as SC (D)
E Concrete	Same test as for SC (F)	Same frequency as SC (F)
F Rocks	Same test as for ROCKS	Same frequency as ROCKS
Earthworks		
A Sub-grade preparation	Grading Test Plasticity Test (LL,PL,PI) Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Density Test	For every layer of 150mm of compacted depth at least one group of three in-situ density test every 500 sq m or fraction thereof
B Structure Excavation	If excavated materials shall be used as Backfill Grading Test Plasticity Test (LL,PL,PI) Laboratory Compaction Test	For every 1,500 cubic meter or fraction thereof
	Density Test	For every layer of 150mm of compacted depth at least one group of three in-situ density test every 500 sq m or fraction thereof

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Materials/Items of Work	*Required Tests*	*Minimum Incremental Frequency of Tests*
III Port Operations Building/Passenger Terminal Building/Transit Shed/Warehouse		
STRUCTURAL WORKS	Refer to Structural Concrete (SC) and Piling Works (P)	
ARCHITECTURAL WORKS		
Ceramic – Filled Liquid Membrane / Water Proofing, Hydrophobic Poreblocking Ingredients with Superplasticizer	Physical Property, Mechanical and Chemical Property, Leak Test / Flood Test	One per shipment
Paint	Quality Test	One 4-L can for every 100 cans or fraction thereof
Ceramic Tile	Inspection and Evaluation Report from the Engineer	One per shipment
Stainless Steel	Inspection and Evaluation Report from the Engineer	One per shipment
Roofing Materials	Inspection and Evaluation Report from the Engineer	One per shipment
Ceiling Materials	Inspection and Evaluation Report from the Engineer	One per shipment
ELECTRICAL AND MECHANICAL WORKS		
Wires / Cables	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Electrical Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Fire Alarm System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Wiring Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Protective Devices	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per shipment
Telephone System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
CCTV System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
CATV System	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Background Music and Paging System	Inspection and Evaluation Report from the Engineer, Testing and Commissioning	One per item
Air Conditioning Units & Ventilation	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Conduit Pipes	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Lighting Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
PLUMBING WORKS		
Pipes	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item

Materials/Items of Work	Required Tests	Minimum Incremental Frequency of Tests
Fixtures	Inspection and Evaluation Report from the Engineer Testing and Commissioning	One per item
Pipe Culverts	Compression Strength Inspection and Evaluation Report from the Engineer	For every size not more than 25 pipes cast in the field
IV Miscellaneous Materials Fencing A Barbed Wire, Cyclone Wire Mesh, Chain Link B Concrete Post	 Physical Test (Dimensions and Coatings) Refer to Superstructure (SC)	 One per Batch Refer to Superstructure (SC)
Lamp Post A Structural Steel B Zinc (Hot Dip Galvanizing) Coatings	Physical Test (Dimensions) Same test as for SC (E) Same test as for CJ (C)	 All units One per batch
Drainage Steel Grating	Same test as for SC (E) Inspection Report	One (1) batch
Metal Pipe (Cast Iron Galvanized, etc)	Physical Test (Dimensions and Coatings)	1 per delivery
Welding Works	Destructive and Non Destructive Test	One (1) per lot

NOTES
1. **Testing of RDF shall be performed only by an independent Testing Laboratory duly accredited by BRS, DOST and PPA**
2. **Testing of other materials shall be performed only by an independent Testing Laboratory duly accredited by BRS and PPA.**
3. **All other issuances which are otherwise inconsistent herewith are hereby revoked or otherwise amended.**

Approved

RAUL T. SANTOS
Officer-In-Charge,
Office of the General Manager

SECTION IX

CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages)

Technical Documents

☐ (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

☐ (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**

☐ (d) Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**

☐ (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**

(f) Project Requirements, which shall include the following:

☐ a. Organizational chart for the contract to be bid;

☐ b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;

☐ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**

☐ (g) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

☐ (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

☐ (i) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

☐ (j) Original of duly signed and accomplished Financial Bid Form; **and**

Other documentary requirements under RA No. 9184

☐ (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**

☐ (l) Duly accomplished Detailed Estimates Form, including a summary sheet indicating the unit prices of construction materials, labor rates, and equipment rentals used in coming up with the Bid; **and**

☐ (m) Cash Flow by Quarter.

SECTION X

BIDDING FORM

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____
Project Identification No. : _____

To: **Philippine Ports Authority**
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers _____, the receipt of which is hereby duly acknowledged, we, the undersigned, declare that:

a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: **Conversion of Existing Transit Shed into Passenger Terminal Building, Port of Lucena, Quezon**;

b. We offer to execute the Works for this Contract in accordance with the PBDs;

c. The total price of our Bid in words and figures, excluding any discounts offered below is: _____;

d. The discounts offered and the methodology for their application are: _____;

e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties],* which are itemized herein and reflected in the detailed estimates,

f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;

g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines[1] for this purpose;

h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;

i. We understand that this Bid, together with your written acceptance thereof

[1] currently based on GPPB Resolution No. 09-2020

included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the **Conversion of Existing Transit Shed into Passenger Terminal Building, Port of Lucena, Quezon** of the **Philippine Ports Authority**.

l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

STATEMENT OF THE BIDDER'S ALL ONGOING GOVERNMENT AND PRIVATE CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

I hereby declare that all ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid are listed below:

Name of outstanding Contracts 1]	Owner's Name and Address	Scope of Work 2]	Contractor's Role and Percentage of Participation 3]	Total Contract Amount or Value 4]	Date of Contract and NOA 5]	Value of Outstanding Works 6]	Accomplishment (in percentage, %) 7]		Contract Duration 8]	
							Planned	Actual	Start of Project	Estimated Completion Date
A) Government Contracts i. On-going ii. Awarded but not yet started B) Private Contracts i. On-going ii. Awarded but not yet started										

NOTE:

1] As appearing in the contract executed by the parties.
2] With special reference to the Scope of Works of the Project as described/enumerated in the Contract.
3] Indicate the percentage of participation and whether as Sole Contractor, Sub-Contractor or Member in a Joint Venture / Consortium.
4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso.
5] As appearing in the Contract and Notice of Award (NOA).
6] Amount or value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.
7] Percentage of Accomplishment as of the preceding month which should not be earlier than two (2) months from the date of bid submission.
8] As appearing in the Notice to Proceed and Contract.

This Statement shall be supported by:

a) Notice of Award
b) Notice to Proceed and Contract

Name of Firm	Name of Bidder/Authorized Representative (Signatory's Legal Capacity)	Date

Revised: September 2021

STATEMENT OF THE BIDDER'S SINGLE LARGEST COMPLETED CONTRACT (SLCC) SIMILAR TO THE CONTRACT TO BE BID

Name of the completed Contract 1]	Owner's Name and Address	Scope of Work 2]	Contractor's Role and Percentage of Participation 3]	Total Contract Value At 4]			Date of Award 5]	Contract Duration 6]	
				Award	Completion	Escalated Value to Present Prices		Start	Completed

NOTE :

1] As appearing in the contract executed by the parties.
2] With special reference to the Scope of Works of the Project as described/enumerated in the Contract.
3] Indicate the percentage of participation and whether as Sole Contractor, Sub-Contractor or Member in a Joint Venture / Consortium.
4] Indicate the FOREX used if Contract Value is expressed in a currency other than the Philippine Peso. Attached the computation for the escalated contract value.
5] As appearing in the Notice of Award.
6] As appearing in the Notice to proceed and Certificate of Completion.

A. The bidder must have an experience of having completed a SLCC that is similar to the contract to be bid equivalent to at least fifty percent (50%) of the ABC, adjusted if necessary, by the Bidder to current prices using the PSA consumer price indices. A contract is considered to be "similar" to the contract to be bid if it has the same Major Categories of Work as stated in the Bid Data Sheet (BDS).
B. This Statement shall be supported by:
   a. Notice of Award, Notice to Proceed and Contract.
   b. Project Owner's Certificate of Final Acceptance issued by the owner and/ or Constructors Performance Evaluation System (CPES) Final Rating, which must be at least Satisfactory. The said Certificate of Acceptance shall contain the following: 1) Name of project owner that issued the certificate, 2) Name of Contractor/ Constructor, 3) Name of Contract, and 4) Contract Duration.
   c. Recapitulation or Final Bill of Quantities.

Name of Firm	Name of Bidder/Authorized Representative (Signatory's Legal Capacity)	Date

Revised: September 2021

STATEMENT OF THE BIDDER'S EXPERIENCE ON MAJOR CATEGORIES OF WORK OF THE SLCC INCLUDING OTHER COMPLETED CONTRACTS SIMILAR TO THE CONTRACT TO BE BID

Major Categories of Work 1]	Unit of Measure 1]	Quantity 1]	SLCC similar to the contract to be bid 2]	Other completed contracts similar to the contract to be bid 2]			Unit of Measure 2]	Quantity 2]
			Name of the contract	Name of the contract	Name of the contract	Name of the contract		
1. Construction of Office Building	sq.m.	1,221						

NOTE:
1] As stated in the Bid Data Sheet.
2] As appearing in the Recapitulation and/ or Final Bill of Quantities.
This statement shall be supported by:

a. Notice of Award, Notice to Proceed and Contract.
b. Project Owner's Certificate of Final Acceptance issued by the owner and/ or Constructors Performance Evaluation System (CPES) Final Rating, of at least satisfactory. The said Certificate of Acceptance shall contain the following: 1) Name of project owner that issued the certificate, 2) Name of Contractor/Constructor, 3) Name of Contract, and 4) Contract Duration.
c. Recapitulation and/ or Final Bill of Quantities.

Name of Firm	Name of Bidder/Authorized Representative Signatory's Legal Capacity	Date

Revised: September 2021

FINANCIAL DATA

A. The prospective bidder's audited Financial Statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "RECEIVED" by the Bureau of Internal Revenue (BIR), or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.

	Year
1. Total Assets	
2. Current Assets	
3. Total Liabilities	
4. Current Liabilities	
5. Net worth (1-3)	
6. Net Working Capital (2-4)	

B. The computation of the bidders Net Financial Contracting Capacity (NFCC) must be at least equal to the ABC to be bid, as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.

NFCC = _____

Attached herewith are certified true copies of the audited financial statements stamped received by the BIR or BIR authorized collecting agent for the latest/immediately preceding calendar year.

_____
Name of Firm/Applicant

_____
Authorized Signing Official

Date:_____

NOTES:

If Partnership or Joint Venture, each Partner or Member Firm of Joint venture shall submit separate financial statements.

STATEMENT OF THE BIDDER'S KEY PERSONNEL PLEDGED FOR THE CONTRACT TO BE BID

I hereby declare that the following key personnel are qualified and available for the duration of the contract to be bid:

Position of Key Personnel 1]	Name	No. of Key Personnel	Similar Experience in the Position (Years) 2]	Total Experience in the Position (Years)	Attachment(s)	Annex(es)
Project Manager					PRC License (CE Preferred) Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Project Engineer					PRC License (CE Preferred) Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Project Architect					PRC License (Architect Preferred) Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Materials Engineer I					PRC License (CE Preferred) Submit Valid and Renewed DPWH Certificate of Accreditation Submit Accreditation Identification Card as Materials Engineer Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Construction Safety and Health Officer					Certificate of Safety and Health Construction Related Course issued by DOLE Accredited Trainings Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Foreman					Complete Qualification and Experience Data Certificate of Commitment	Annex "_"
Other Position(s)					Complete Qualification and Experience Data Certificate of Commitment	Annex "_"

NOTE: 1] As stated in the Bid Data Sheet
2] The number of years of experience of the key personnel shall be as indicated in the qualification and experience data or curriculum vitae.

Minimum qualification requirements: The key personnel must have a work experience that is similar in nature and complexity to the contract to be bid.

Project Manager - Five (5) years
Project Engineer - Three (3) years
Project Architect - Three (3) years
Foreman - Five (5) years
Materials Engineer – One (1) year
Construction Safety and Health Officer – One (1) year
Materials Engineer I – for projects costing up to 100M
Materials Engineer II – for projects costing more than 100M

Name of Firm

Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

Date

Revised: September 2021

STATEMENT OF THE BIDDER'S EQUIPMENT PLEDGED FOR THE CONTRACT TO BE BID

I hereby declare that the following equipment are in good operating condition and available for the duration of the contract to be bid:

DESCRIPTION (Type, Model, Make)	No. of Unit(s)	Capacity/ Output 1]	Owned, Leased, and/or under purchased agreement 2]	Proof of Ownership/ Leased/ Under Purchase Agreement (Mark as Annex "A.....Z") 3]	OTHER INFORMATION (As Applicable)				
					Manufacturer	Engine Serial No.	Chassis No./ Name of Vessel	Location	Status

NOTE:

1] The unit of capacity of the pledged equipment shall be as indicated in the Proof of Ownership, i.e. GW (for crane barge), DWT (for deck barge and hopper barge), Ton (for crane, road roller and drop hammer), kg.-m/blow (for diesel hammer), cu.m. (for dump truck), hp (for tugboat, road grader, bulldozer and concrete vibrator), cfm (for compressor), gal (for water truck with pump), amp (for welding machine), bagger (for concrete mixer). If the capacity of the pledged equipment is not indicated in the Proof of Ownership/Lease Contract/Purchased Agreement, submit other proof of capacity such as specifications, brochures or other verifiable printouts indicating the model name, model number and other details of the equipment.

2] Indicate if the pledged equipment are owned, leased or under purchase agreement.

3] If the pledged equipment is owned, it should be in the name of the bidder. Submit proof of ownership, i.e. deed of sale, sales invoice, official receipt; For owned Water Truck, Dump Truck, Cargo Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt; For owned barge/tugboat, submit Marina Certificate of Ownership and valid Cargo Ship Safety Certificate.

If the pledged equipment is leased/under purchase agreement, submit the following:

For equipment under lease agreement:

a. certification of availability of equipment from the equipment lessor for the duration of the project
b. duly Notarized copy of lease contract
c. For Water Truck, Dump Truck, Cargo Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt

For equipment under purchase agreement:

a. certification of availability of equipment from the equipment vendor
b. duly Notarized copy of purchase agreement
c. For Water Truck, Dump Truck and Transit Mixer submit LTO Certificate of Registration and valid Official Receipt or copy of conduction sticker, whichever is applicable.

If the pledged barge/tugboat is leased/under purchase agreement, submit certification of availability of barge/tugboat from the equipment lessor/vendor for the duration of the project, and duly Notarized copy of lease contract/purchased agreement together with a copy of the Marina Certificate of Ownership and valid Cargo Ship Safety Certificate.

The Minimum Major Equipment Requirements are listed in Section 8, Annex 3.

Name of Firm	Name of Bidder/Authorized Representative (Signatory's Legal Capacity)	Date

Revised: August 2024

Omnibus Sworn Statement for Sole Proprietorship

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the sole proprietor or authorized representative of _____ with office address at _____;

2. As the owner and sole proprietor, or authorized representative of _____, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Conversion of Existing Transit Shed into Passenger Terminal Building, Port of Lucena, Quezon,** as shown in the attached duly notarized Special Power of Attorney;

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. The owner or sole proprietor is not related to the Head of the Procuring Entity, Procurement Agent if engaged, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement for Partnership or Cooperative

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of _____ with office address at _____;

2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Conversion of Existing Transit Shed into Passenger Terminal Building, Port of Lucena, Quezon** of the **Philippine Ports Authority**, as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, Procurement Agent if engaged, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement for Corporation or Joint Venture

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, _____, of legal age, [Civil Status], [Nationality], and residing at _____, after having been duly sworn in accordance with law, do hereby depose and state that:

1. I am the duly authorized and designated representative of _____ with office address at _____;

2. I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **Conversion of Existing Transit Shed into Passenger Terminal Building, Port of Lucena, Quezon** as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, Procurement Agent if engaged, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this __ day of ___, 20__ at _____, Philippines.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Bid Securing Declaration Form

[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION
Project Identification No.: _____

To: **Philippine Ports Authority**
PPA Building, Bonifacio Drive,
South Harbor, Port Area, Manila

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.

3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:

   a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
   b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
   c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month] [year]* at *[place of execution]*.

_____
Name of Bidder/ Authorized Representative
(Signatory's Legal Capacity)
AFFIANT

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

CONSTRUCTION METHODOLOGY

Name of Project : _____

Project Description : _____

Location : _____

MINIMUM SCOPE OF CONSTRUCTION METHODOLOGY

A. REMOVAL, EXCAVATION AND DISPOSAL WORKS

1. Removal and disposal of zocalo
2. Removal of G.I. wire wall and ceiling
3. Removal of Interlocking Paving Blocks
4. Excavation of backfilling works
5. Removal and disposal of existing slab on grade
6. Removal and disposal of existing concrete pavement
7. Removal and disposal portion of existing roofing
8. Removal and disposal portion of existing CHB
9. Removal and disposal of existing ramp and stairs
10. Removal and disposal of existing curb and ramp

B. CONVERSION OF EXISTING TRANSIT SHED INTO PASSENGER TERMINAL BUILDING

1. Supply & install roofing works
2. Supply & install solid polycarbonate roof sheet
3. Supply, fabricate & install carpentry works & dry wall partitions
4. Construct CHB wall including reinforcement
5. Supply and place reinforced concrete for ramp and footing
6. Supply and place gravel bedding and aggregate sub-base course
7. Supply, fabricate & install structural steel for column and beams
8. Application of painting & waterproofing
9. Supply & install tiles, granite, tactile & stair nosing
10. Supply & install aluminum composite panel
11. Supply & install ceiling works
12. Supply & install doors, windows, and stainless railings
13. Supply & install curtain wall and glass panel
14. Supply & install toilet fixtures & partitions
15. Construct septic vault & installation of water, drainage & sewerage lines
16. Construct pumphouse & appurtenances
17. Supply & install electro/mechanical works
18. Construct reinforced concrete duct bank, handhole & pedestal post
19. Supply and install fire protection system
20. Supply and install Photoluminescent sign & path markings
21. Supply and deliver office furniture's, gang chairs, and drinking fountain
22. Supply, deliver and install Turnstile Gate Access Control System
23. Supply & install directional and identification signages, PPA logo & pahiyas accent pattern
24. Supply & install distribution transformer incld. accidental expenses
25. Restoration of demolished pavement and slab on grade
26. Re-installation of removed ICPB
27. Supply & install solar panel system

NOTES:

The narrative construction method will guide and familiarize the contractor and the PPA on how the project shall be carried out in accordance with the highest standard of workmanship.

The construction method shall be consistent with the Bar Chart / S-Curve Schedule, Equipment Schedule and Manpower Schedule.

_____
Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

Revised: September 2021

MANPOWER SCHEDULE

Name of Project : _____

Project Description : _____

Location : _____

MANPOWER (Minimum)	CONTRACT DURATION (_____ Calendar Days)													
	MONTHLY													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Project Manager														
Project Engineer														
Project Architect														
Materials Engineer II														
Construction Safety and Health Officer														
Foreman														
Specify other applicable positions, ie.:														
- Carpenter														
- Steelman														
- Mason														
- Electrician														
- Rigger														
- Others														

_____SSS
Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

Revised: September 2021

EQUIPMENT UTILIZATION SCHEDULE

Name of Project : _____

Project Description : _____

Location : _____

EQUIPMENT (Minimum)	No. of Units	CONTRACT DURATION (_____ Calendar Days)													
		M O N T H L Y													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14

_____
Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

Revised: September 2021

CASHFLOW BY QUARTER AND PAYMENT SCHEDULE

Name of Project: : _____

Project Description : _____

Location : _____

Project Duration (days or months)	Payment Schedule (Monthly, in Pesos)	Cash flow (Quarterly, in Pesos)
TOTAL		

NOTES

- The cash flow by quarter and payment schedule should be consistent with the Bar Chart and S-curb.
- Payment schedule shall not be more than once a month.

_____
Name of Bidder/Authorized Representative
(Signatory's Legal Capacity)

Revised: September 2021

Contract Agreement Form for the Procurement of Infrastructure Projects (Revised)

[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT, made this _____ day of _____, _____ between **Philippine Ports Authority** with principal office at PPA Building, Bonifacio Drive, South Harbor, Port Area, Manila (hereinafter called the "Entity") and **[name and address of Contractor]** (hereinafter called the "Contractor").

WHEREAS, the Entity is desirous that the Contractor execute **[name and identification number of contract]** (hereinafter called "the Works") and the Entity has accepted the Bid for **[contract price in words and figures in specified currency]** by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:

   a. Philippine Bidding Documents (PBDs);
      i. Drawings/Plans;
      ii. Specifications;
      iii. Bill of Quantities;
      iv. General and Special Conditions of Contract;
      v. Supplemental or Bid Bulletins, if any;

   b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

   Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

   c. Performance Security;

   d. Notice of Award of Contract and the Bidder's conforme thereto; and

   e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**

3. In consideration for the sum of **[total contract price in words and figures]** or such other sums as may be ascertained, **[Named of the bidder]** agrees to **[state the object of the contract]** in accordance with his/her/its Bid.

4. The **Philippine Ports Authority** agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

JAY DANIEL R. SANTIAGO General Manager	**Name of Bidder/ Authorized Representative** (Signatory's Legal Capacity)
for:	for:
Philippine Ports Authority	**Contractor**

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]